

Single Mode C-Lens Fiber Collimator



Description

The Single Mode C-Lens Fiber Collimator is designed to convert the divergent output of single mode fiber into a high-quality collimated beam, or to efficiently couple free-space light back into fiber. Featuring a precision C-lens and fixed optical alignment, it delivers stable beam quality, low insertion loss, and excellent long-term reliability.

Features

- Low Insertion Loss
- Long Working Distance
- High Reliability
- Compact Size

Applications

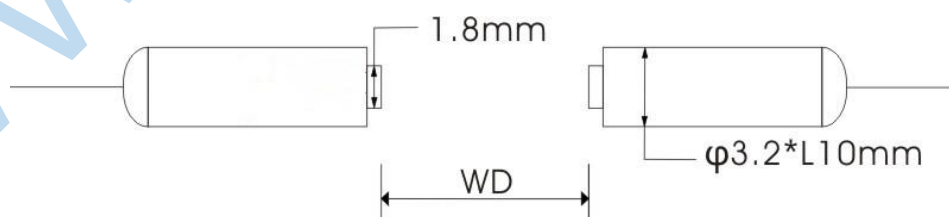
- Fiber Laser
- Fiber Amplifier
- Optical Communication Field
- LiDAR

Specifications

Parameter	Unit	Value					
Center Wavelength	nm	532	630/670	780/830/850	980/1030/1064	1310/1480/1550	1950/2000/2050
Operating Wavelength Range	nm	±10	±10	±30	±30	±30	±30
Working Distance	mm	5/50		5/50/100			
Beam Diameter	mm	≤0.6					
Insertion Loss	dB	≤1.6	≤1.0	≤0.6	≤0.5	≤0.4	≤0.6
Return Loss	dB	≥50					
Polarization Dependent Loss	dB	≤0.2					
Max Optical Power (CW)	W	0.1		0.5/1/5/10			
Fiber Type	-	460-HP	630-HP	780-HP	Hi1060	SMF-28e	SM1950
Tensile Load	N	5					
Package Dimensions	mm	Φ3.2 x L10 (Gold-Plated Tube), Φ2.8 x L9 (Glass Tube)					
Operating Temperature	°C	-5 to +70					
Storage Temperature	°C	-40 to +85					

Notes: Tested at 25 °C. Data exclude connectors. If connectors are added, insertion loss may vary depending on wavelength. Please contact us for confirmation. Return loss will be reduced by approximately 5 dB.

Product Dimensions



Ordering Information

☐	☐ nm	☐ mm	☐	☐ W	☐	☐ m	☐ μm	☐
Usage Type	Center Wavelength	Working Distance	Tube Type	Max Optical Power (CW)	Fiber Type	Pigtail Length	Pigtail Diameter	Connector
Single	532nm	5mm	Glass Tube	0.1W	460-HP	0.5m	250μm Bare Fiber	None
Matched Pair	630nm	50mm	Gold-Plated Tube	0.5W	630-HP	1.0m	900μm Loose Tube	LC/UPC
	670nm	100mm		1W	780-HP	1.5m		LC/APC
	780nm			5W	Hi1060	2.0m		SC/UPC
	830nm			10W	SMF-28e			SC/APC
	850nm				SM1950			FC/UPC
	980nm							FC/APC
	1030nm							ST/UPC
	1064nm							ST/APC
	1310nm							
	1480nm							
	1550nm							
	1950nm							
	2000nm							
	2050nm							